

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

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- 1 Claim 1 (Previously Presented). A fault monitoring method, comprising
2 the steps of:
3 providing a plurality of portable radio communication terminals in
4 a commodity management system, each of which manages commodities by
5 communicating with an inventory controller via a radio communication
6 base station;
7 automatically executing a test of a radio communication section in
8 arbitrary portable radio communication terminals when a number of
9 retrying times of radio communication between said arbitrary portable
10 radio communication terminals and said radio communication base station
11 exceeds a predetermined number of times; and
12 displaying a fault of said radio communication section on a display
13 section of said arbitrary portable radio communication terminals when said
14 fault occurs.
- 1 2. (Previously Presented) A fault monitoring method of a plurality of
2 portable radio communication terminals used in a commodity management
3 system, each of which manages commodities by communicating with an
4 inventory controller via a radio communication base station, said fault
5 monitoring method comprising:
6 a step of automatically executing a test of a radio communication
7 section in arbitrary portable radio communication terminals when a
8 number of retrying times of radio communication between said portable
9 radio communication terminals and said radio communication base station
10 exceeds a predetermined number of times; and
11 a step of displaying a fault of said radio communication section on

12 a display section of said arbitrary portable radio communication terminals
13 when said fault occurs,
14 wherein a call time interval of retrying said radio communication
15 between said arbitrary portable radio communication terminals and said
16 radio communication base station is set longer than an average
17 communication time of said radio communication between each of said
18 portable radio communication terminals and said radio communication
19 base station in said commodity management system.

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1 3. (Previously Presented) A fault monitoring method of a plurality of
2 portable radio communication terminals used in a commodity management
3 system, each of which manages commodities by communicating with an
4 inventory controller via a radio communication base station, said fault
5 monitoring method:
6 a step of automatically executing a test of a radio communication
7 section in arbitrary portable radio communication terminals when a
8 number of retrying times of radio communication between said arbitrary
9 portable radio communication terminals and said radio communication
10 base station exceeds a predetermined number of times; and
11 a step of displaying a fault of said radio communication section on
12 a display section of said arbitrary portable radio communication terminals
13 when said fault occurs,
14 wherein said test for said radio communication section is executed
15 after checking that said radio communication between each of said
16 portable radio communication terminals other than said arbitrary portable
17 radio communication terminals and said radio communication base station
18 is vacant continuously in a case out of an execution prohibiting time zone
19 in said commodity management system.

1 4. (Previously Presented). The fault monitoring method of a plurality

2 of portable radio communication terminals used in a commodity
3 management system according to Claim 3, wherein said test for said radio
4 communication section is executed after passing a predetermined time by
5 returning to a check of a vacant state in said case out of said execution
6 prohibiting time zone in said commodity management system when said
7 radio communication between each of said portable radio communication
8 terminals other than said arbitrary portable radio communication terminals
9 and said radio communication base station and is waited for until said
10 vacant state.

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1 5. (Previously Presented). The fault monitoring method of a plurality
2 of portable radio communication terminals used in the commodity
3 management system according to Claim 3, wherein said test for said radio
4 communication section is executed after passing a predetermined time by
5 returning to a check of said execution prohibiting time zone of said test in
6 a case in said execution prohibiting time zone in said commodity
7 management system and is waited for until out of said execution
8 prohibiting time zone.

1 6. (Previously Presented) The fault monitoring method of a plurality
2 of portable radio communication terminals used in a commodity
3 management system according to Claim 4, wherein said test for said radio
4 communication section is executed after passing a predetermined time by
5 returning to a check of said execution prohibiting time zone of said test in
6 a case in said execution prohibiting time zone in said commodity
7 management system and is waited for until out of said execution
8 prohibiting time zone.

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1 7. (Previously Presented). A storage medium storing a fault
2 monitoring program to cause a computer to carry out a fault monitoring

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3 method of a plurality of portable radio communication terminals in a
4 commodity management system, each of which commodities by
5 communicating with an inventory controller via a radio communication
6 base station, said fault monitoring method comprising:
7 a step of automatically executing a test of a radio communication
8 section in arbitrary portable radio communication terminals when a
9 number of retrying times of radio communication between said arbitrary
10 portable radio communication terminals and said radio communication
11 base station exceeds a predetermined number of times; and
12 a step of displaying a fault of said radio communication section on
13 a display section of said arbitrary portable radio communication terminals
14 when said fault occurs.

1 8. (Previously Presented) A fault monitoring program to cause a
2 computer to carry out a fault monitoring method of a plurality of portable
3 radio communication terminals in a commodity management system, each
4 of which manages commodities by communicating with an inventory
5 controller via a radio communication base station, said fault monitoring
6 method comprising:
7 a step of automatically executing a test of a radio communication
8 section in arbitrary portable radio communication terminals when a
9 number of retrying times of radio communication between said arbitrary
10 portable radio communication terminals and said radio communication
11 base station exceeds a predetermined number of times; and
12 a step of displaying a fault of said radio communication section on
13 a display section of said arbitrary portable radio communication terminals
14 when said fault occurs.
